

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2103 Wheatland Vicinity

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek	Left	4.64	11/01/2018 11/01/2018	Sterling York

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2103_01_s_2012_2				
Comment Code					
Inspector Comment					
LMA regularly attends flood fight training put on by RD784 and DWR.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2103_01_s_2013_5				
Comment Code					
Inspector Comment					
The LMA has a copy of the manual.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2103_01_s_2013_6				
Comment Code					
Inspector Comment					
LMA stated that they have approx. 2500 sandbags and related flood fight material located in a mini storage in downtown Wheatland.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 South Dry Creek	Left	4.64	11/01/2018 11/01/2018	Sterling York

LM Start	0.00	Rating **	A	Issue No.	18
LM End	4.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.019794 °	39.041396 °
				-121.454006 °	-121.392002 °
DWR ID	DWR_RD2103_01_f_2018_18				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA_2018_RD2103_10_18_20181107_00042.jpg



View looking upstream landside of the annual vegetation that is well maintained, Fall 2018.

LM Start	0.00	Rating **	A	Issue No.	19
LM End	4.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.019794 °	39.041396 °
				-121.454006 °	-121.392002 °
DWR ID	DWR_RD2103_01_f_2018_19				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA_2018_RD2103_10_19_20181107_00041.jpg



View looking upstream waterside of the annual vegetation that is well maintained, Fall 2018.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Unit No. 01 South Dry Creek	Left	4.64	11/01/2018 11/01/2018	Sterling York

LM Start	0.20	Rating **	M	Issue No.	23
LM End	0.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.020856 °	39.020938 °
				-121.450629 °	-121.450237 °
DWR ID	DWR_RD2103_01_f_2015_23				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD2103_10_23_20180918_00004.jpg



View of squirrel holes on the waterside looking downstream but no evidence of animal activity during Fall 2018 inspection.

LM Start	0.82	Rating **	A/W	Issue No.	36
LM End	0.82	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.024811 °	39.024811 °
				-121.440750 °	-121.440750 °
DWR ID	19471				
Comment Code					
Inspector Comment					
FS_ID:38325 DS_ID:19471 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 14.4 feet below the crown. Concrete headwall, flap-gate, and 3-foot by 6-foot concrete splash apron located on the waterside (WS) toe. Outfall drain from old Grasshopper Slough. [Additional Reference(s): DWR Levee Logs, 2005. USACE Sacramento O&M Manual Unit No. 146, November 1962, (HLM 0.83)] FS Date: 3/20/2014					

Photo 1 of 3 : UCIP_FA_2018_38325_69869.jpg



View of CMP crossing located on landward side.

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Unit No. 01 South Dry Creek	Left	4.64	11/01/2018 11/01/2018	Sterling York

LM Start	0.82	Rating **	A/W	Issue No.	36 (cont)	
LM End	0.82	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.024811 °		39.024811 °
				-121.440750 °		-121.440750 °
DWR ID	19471					
Comment Code						
Inspector Comment						
FS_ID:38325 DS_ID:19471 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 14.4 feet below the crown. Concrete headwall, flap-gate, and 3-foot by 6-foot concrete splash apron located on the waterside (WS) toe. Outfall drain from old Grasshopper Slough. [Additional Reference(s): DWR Levee Logs, 2005. USACE Sacramento O&M Manual Unit No. 146, November 1962, (HLM 0.83)] FS Date: 3/20/2014						

LM Start	0.82	Rating **	A/W	Issue No.	36 (cont)
LM End	0.82	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2018_38325_69868.jpg



Close up view of crossing from landward side.

Photo 3 of 3 : UCIP_FA_2018_38325_69873.jpg



View of levee crown at crossing.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek	Left	4.64	11/01/2018 11/01/2018	Sterling York

LM Start	1.27	Rating **	N	Issue No.	26
LM End	1.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.027261 °	39.027261 °
				-121.433269 °	-121.433269 °
DWR ID	DWR_RD2103_01_s_2016_26				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Stump needs to be removed fom slope.					

Photo 1 of 1 : FA_2018_RD2103_10_26_20180918_00005.jpg



View of tree stump on lanside levee slope. Fall 2016, still exist as of Fall 2018.

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Reclamation District No. 2103 Wheatland Vicinity

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	4.88	11/01/2018 11/01/2018	Sterling York

LM Start	0.00	Rating **	A	Issue No.	13
LM End	4.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.993416 °	39.030162 °
				-121.437338 °	-121.368826 °
DWR ID	DWR_RD2103_02_f_2018_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA_2018_RD2103_11_13_20181107_00032.jpg



View looking upstream waterside of the annual vegetation that is well maintained, Fall 2018.

LM Start	0.00	Rating **	A	Issue No.	11
LM End	4.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.993416 °	39.030162 °
				-121.437338 °	-121.368825 °
DWR ID	DWR_RD2103_02_f_2018_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA_2018_RD2103_11_11_20181107_00033.jpg



View looking upstream landside of the annual vegetation that is well maintained, Fall 2018.

*** Location**

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CR : Crown

**** Rating**

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+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	4.88	11/01/2018 11/01/2018	Sterling York

LM Start	1.97	Rating **	A/W	Issue No.	12	
LM End		Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			39.002378 °		°
				-121.403611 °		°
DWR ID	DWR_RD2103_02_f_2017_12					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:2017 Flood Fight Emergency Repair - 200 feet of site repaired in March 2017. Additional 50 feet requires repair after water receded. \$220,000 estimated total for completion and post project permits and mitigation						
Site ID No:488						
Site Designation:LMA-326						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/27/2017						
Notes: Site will likely degrade quickly due to lack of RSP along the lower portion of the bank slope and downstream end of site. At time of field visit, site does not appear to be any imminent threat of failure.						

LM Start	1.97	Rating **	A/W	Issue No.	12 (cont)
LM End		Issue Type +	Ma	Location *	

Photo 1 of 5 : FA_2018_RD2103_11_12_20180918_00001.jpg



Photo taken at time of Fall 2017 Levee Inspection, looking upstream at the erosion site.

Photo 2 of 5 : FA_2018_RD2103_11_12_20180918_00002.jpg



Photo taken at time of Fall 2017 Levee Inspection, looking upstream at the erosion site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 02 Bear River	Right	4.88	11/01/2018 11/01/2018	Sterling York

LM Start	1.97	Rating **	A/W	Issue No.	12 (cont)	
LM End		Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			39.002378 °		°
				-121.403611 °		°
DWR ID	DWR_RD2103_02_f_2017_12					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:2017 Flood Fight Emergency Repair - 200 feet of site repaired in March 2017. Additional 50 feet requires repair after water receded. \$220,000 estimated total for completion and post project permits and mitigation						
Site ID No:488						
Site Designation:LMA-326						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/27/2017						
Notes: Site will likely degrade quickly due to lack of RSP along the lower portion of the bank slope and downstream end of site. At time of field visit, site does not appear to be any imminent threat of failure.						

Photo 3 of 5 : LEVAL_FA_2018_488_1808.jpg



LM Start	1.97	Rating **	A/W	Issue No.	12 (cont)
LM End		Issue Type +	Ma	Location *	

Photo 4 of 5 : LEVAL_FA_2018_488_1810.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 02 Bear River	Right	4.88	11/01/2018 11/01/2018	Sterling York

LM Start	1.97	Rating **	A/W	Issue No.	12 (cont)					
LM End		Issue Type +	Ma	Location *						
Category	Supplemental			GPS Latitude/Longitude						
				Start	End					
Item	2017 Storm Damage			39.002378 °	°					
				-121.403611 °	°					
DWR ID	DWR_RD2103_02_f_2017_12									
Comment Code										
Inspector Comment										
Levee Evaluation Comments Description: 2017 Flood Fight Emergency Repair - 200 feet of site repaired in March 2017. Additional 50 feet requires repair after water receded. \$220,000 estimated total for completion and post project permits and mitigation Site ID No: 488 Site Designation: LMA-326 Repair Type: Erosion Rating: Area of Concern Field Date: 7/27/2017 Notes: Site will likely degrade quickly due to lack of RSP along the lower portion of the bank slope and downstream end of site. At time of field visit, site does not appear to be any imminent threat of failure.										

Photo 5 of 5 : LEVAL_FA_2018_488_1812.jpg



LM Start	2.59	Rating **	M	Issue No.	24					
LM End	2.59	Issue Type +	Ma	Location *	LS					
Category	Earthen Levee			GPS Latitude/Longitude						
				Start	End					
Item	Vegetation			39.009249 °	39.009249 °					
				-121.397334 °	-121.397334 °					
DWR ID	DWR_RD2103_02_s_2015_24									
Comment Code										
V4 : Elderberries are blocking visibility and flood fight capability.										
Inspector Comment										

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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